

propene
butane
pentane
hexane
heptane

AMENDMENTS

1/20/98
parent: 6752983

Current Listing of Claims

1. (Currently amended) A hair care composition comprising:
 - a. a fixative;
 - b. 20 wt.% to 55 wt.% alkanol component comprising ethanol; and
 - c. at least 105 weight % methyl acetate,wherein the VOC of the composition does not exceed 80%.
2. (Original) The hair care composition of claim 1, wherein the fixative is present in an amount in the range of from approximately 1 weight % to approximately 12 weight %.
3. (Original) The hair care composition of claim 1, wherein the fixative is present in the range of from approximately 2 weight % to approximately 10 weight %.
4. (Original) The hair care composition of claim 1, wherein the fixative is present in the range of from approximately 4 weight % to approximately 8 weight %.
5. (Original) The hair care composition of claim 1, wherein the fixative is present in the range of from approximately 4 weight % to approximately 6 weight %.
6. (Original) The hair care composition of claim 1, wherein the fixative is present in the range of from approximately 1 weight % to approximately 7 weight %.
7. (Original) The hair care composition of claim 1, wherein the fixative is present in the range of from approximately 1 weight % to approximately 10 weight %.
8. (Original) The hair care composition of claim 1, wherein the alkanol is present in the range of from approximately 20 weight % to approximately 50 weight %.

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9. (Original) The hair care composition of claim 1, wherein the alkanol is present in the range of from approximately 20 weight % to approximately 45 weight %.
10. (Original) The hair care composition of claim 1, wherein the alkanol is present in the range of from approximately 20 weight % to approximately 40 weight %.
11. (Original) The hair care composition of claim 1, wherein the alkanol is present in the range of from approximately 20 weight % to approximately 35 weight %.
12. (Original) The hair care composition of claim 1, wherein the alkanol is present in the range of from approximately 20 weight % to approximately 30 weight %.
13. (Original) The hair care composition of claim 1, wherein the alkanol is present in the range of from approximately 20 weight % to approximately 25 weight %.
14. (Original) The hair care composition of claim 1, wherein the alkanol is present in the range of from approximately 25 weight % to approximately 50 weight %.
15. (Original) The hair care composition of claim 1, wherein the alkanol is present in the range of from approximately 30 weight % to approximately 50 weight %.
16. (Original) The hair care composition of claim 1, wherein the alkanol is present in the range of from approximately 35 weight % to approximately 50 weight %.
17. (Original) The hair care composition of claim 1, wherein the alkanol is present in the range of from approximately 40 weight % to approximately 50 weight %.
18. (Original) The hair care composition of claim 1, wherein the alkanol is present in the range of from approximately 45 weight % to approximately 50 weight %.

19. (Cancelled)
20. (Cancelled)
21. (Cancelled)
22. (Original) The hair care composition of claim 1, wherein the methyl acetate is present in the range of from approximately 10 weight % to approximately 60 weight %.
23. (Original) The hair care composition of claim 1, wherein the methyl acetate is present in the range of from approximately 15 weight % to approximately 60 weight %.
24. (Original) The hair care composition of claim 1, wherein the methyl acetate is present in the range of from approximately 20 weight percent to approximately 60 weight %.
25. (Original) The hair care composition of claim 1, wherein the methyl acetate is present in the range of from approximately 25 weight % to approximately 60 weight %.
26. (Original) The hair care composition of claim 1, wherein the methyl acetate is present in the range of from approximately 30 weight % to approximately 60 weight %.
27. (Currently amended) The hair care composition of claim 1, wherein the methyl acetate is present in the range of from approximately 105 weight % to approximately 55 weight %.
28. (Currently amended) The hair care composition of claim 1, wherein the methyl acetate is present in the range of from approximately 105 weight % to approximately 50 weight %.
29. (Currently amended) The hair care composition of claim 1, wherein the methyl acetate is present in the range of from approximately 105 weight % to approximately 45 weight %.

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30. (Currently amended) The hair care composition of claim 1, wherein the methyl acetate is present in the range of from approximately 105 weight % to approximately 40 weight %.

31. (Currently amended) The hair care composition of claim 1, wherein the methyl acetate is present in the range of from approximately 105 weight % to approximately 35 weight %.

~~32.~~ (Currently amended) The hair care composition of claim 1, wherein the methyl acetate is present in the range of from approximately 105 weight % to approximately 30 weight %.

33. (Original) The hair care composition of claim 1, further comprising water.

34. (Original) The hair care composition of claim 33, wherein the water is present in the range of from approximately 0.01 weight % to approximately 45 weight %.

35. (Original) The hair care composition of claim 33, wherein the water is present in the range of from approximately 0.01 weight % to approximately 30 weight %.

36. (Original) The hair care composition of claim 1, further comprising a propellant.

37. (Original) The hair care composition of claim 36, wherein the propellant is present in the range of from approximately 15 weight % to approximately 45 weight %.

38. (Original) The hair care composition of claim 36, wherein the propellant is present in the range of from approximately 20 weight % to approximately 45 weight %.

39. (Original) The hair care composition of claim 36, wherein the propellant is present in the range of from approximately 25 weight % to approximately 45 weight %.

- 40. (Original) The hair care composition of claim 36, wherein the propellant is present in the range of from approximately 30 weight % to approximately 45 weight %.
- 41. (Original) The hair care composition of claim 36, wherein the propellant is present in the range of from approximately 35 weight % to approximately 45 weight %.
- 42. (Original) The hair care composition of claim 36, wherein the propellant is present in the range of from approximately 40 weight % to approximately 45 weight %.
- 43. (Original) The hair care composition of claim 36, wherein the propellant is present in the range of from approximately 15 weight % to approximately 40 weight %.
- 44. (Original) The hair care composition of claim 36, wherein the propellant is present in the range of from approximately 15 weight % to approximately 35 weight %.
- 45. (Original) The hair care composition of claim 36, wherein the propellant is present in the range of from approximately 15 weight % to approximately 30 weight %.
- 46. (Original) The hair care composition of claim 36, wherein the propellant is present in the range of from approximately 15 weight % to approximately 25 weight %.
- 47. (Original) The hair care composition of claim 36, wherein the propellant is present in the range of from approximately 15 weight % to approximately 20 weight %.
- 48. (Original) The hair care composition of claim 36, wherein the propellant comprises dimethyl ether.
- 49. (Original) The hair care composition of claim 1, comprising a volatile organic compound content less than approximately 55 %.

50. (Currently amended) The hair care composition of claim 1 comprising:
- from about 1 to about 12 weight % fixative;
 - from about 20 to about ~~5580~~-weight % ethanol; and
 - from about ~~105~~ to about 60 weight % methyl acetate.
51. (Original) The hair care composition of claim 1 comprising:
- from about 4 to about 8 weight % fixative;
 - from about 30 to about 55 weight % ethanol; and
 - from about 10 to about 40 weight % methyl acetate.
52. (Original) The hair care composition of claim 1 wherein the fixative comprises:
- a polymer or copolymer of acrylic acid and/or methacrylic acid or one of their polymerizable esters;
 - a polymer or copolymer of acrylamide, hydroxy acrylate, t-butylaminoethyl methacrylate, octyl acrylate, octylacrylamide, vinyl caprolactam, crotonic acid, dimethylaminopropylacrylamide, vinylpyrrolidone, vinyl acetate, vinyl propionate, vinyl caprolactam, and/or dimethicone;
 - an ethyl, propyl, or butyl ester of polyvinyl methyl ether and maleic anhydride copolymer;
 - a vinyl acetate/crotonates/vinyl neodecanoate copolymer;
 - an octylacrylamide/acrylates/butylaminoethyl methacrylate copolymer; or
 - a mixture thereof.
53. (Original) The hair care composition of claim 1 wherein the fixative is a vinyl acetate/crotonates/vinyl neodecanoate copolymer or octylacrylamide/acrylates/butylaminoethyl methacrylate copolymer.
54. (Original) The hair care composition of claim 1 further comprising water, wherein the fixative is a water dispersible sulfopolyester.

55. (Original) The hair care composition of claim 1 further comprising water, wherein the fixative is a diglycol/cyclohexane dimethanol/isophthalates/sodium sulfoisophthalate copolymer.
56. (Original) The hair care composition of claim 1 further comprising water and a propellant, wherein the propellant comprises dimethyl ether.
57. (Original) The hair care composition of claim 1 further comprising a propellant, wherein the propellant comprises methane, ethane, propane, isobutane, n-butane, dimethyl ether, 1,1-difluoroethane, 1,1,1,2-tetrafluoroethane, or a mixture thereof.
58. (Original) The hair care composition of claim 1 further comprising a propellant, wherein the propellant comprises propane and isobutane.
59. (Original) The hair care composition of claim 1 further comprising a propellant, wherein the propellant comprises from about 5 to about 50 parts by weight propane, and from about 50 to about 95 parts by weight isobutane.
60. (Original) The hair care composition of claim 1 further comprising a propellant, wherein the propellant comprises 1,1-difluoroethane.
61. (Currently amended) The hair care composition of claim 1 comprising:
- from about 1 to about 10 weight % fixative;
 - from about 20 to about ~~55~~75 weight % ethanol;
 - from about ~~10~~5 to about 60 weight % methyl acetate; and
 - from about 15 to about 45 weight % propellant.
62. (Original) The hair care composition of claim 1 comprising:
- from about 2 to about 8 weight % fixative;
 - from about 20 to about 55 weight % ethanol;

- c. from about 10 to about 40 weight % methyl acetate; and
- d. from about 20 to about 35 weight % propellant.

63. (Currently amended) The hair care composition of claim 1 comprising:

- a. from about 1 to about 12 weight % fixative;
- b. from about 20 to about ~~5580~~ weight % ethanol;
- c. from about ~~105~~ to about 60 weight % methyl acetate; and
- d. from about 0.01 to about 45 weight % water.

64. (Original) The hair care composition of claim 1 comprising:

- a. from about 4 to about 8 weight % fixative;
- b. from about 30 to about 55 weight % ethanol;
- c. from about 10 to about 40 weight % methyl acetate; and
- d. from about 0.01 to about 30 weight % water.

65. (Currently amended) The hair care composition of claim 1 comprising:

- a. from about 1 to about 10 weight % fixative;
- b. from about 20 to about ~~5575~~ weight % ethanol;
- c. from about ~~105~~ to about 60 weight % methyl acetate;
- d. from about 0.01 to about 45 weight % water; and
- e. from about 15 to about 45 weight % propellant.

66. (Original) The hair care composition of claim 1 comprising:

- a. from about 2 to about 8 weight % fixative;
- b. from about 20 to about 55 weight % ethanol;
- c. from about 10 to about 40 weight % methyl acetate;
- d. from about 0.01 to about 30 weight % water; and
- e. from about 20 to about 35 weight % propellant.

~~67.~~ (Currently amended) The hair care composition of claim 1 further comprising water, wherein ~~the composition comprises from about 5 to about 10 weight % methyl acetate,~~ and the molar ratio of water to ethanol does not exceed about 10.

~~68.~~ (Original) The hair care composition of claim 1 further comprising water, wherein the composition comprises from about 11 to about 15 weight % methyl acetate, and the molar ratio of water to ethanol does not exceed about 6.

~~69.~~ (Original) The hair care composition of claim 1 further comprising water, wherein the composition comprises from about 16 to about 20 weight % methyl acetate, and the molar ratio of water to ethanol does not exceed about 3.5.

~~70.~~ (Original) The hair care composition of claim 1 further comprising water, wherein the composition comprises from about 21 to about 25 weight % methyl acetate, and the molar ratio of water to ethanol does not exceed about 2.5.

~~71.~~ (Original) The hair care composition of claim 1 further comprising water, wherein the composition comprises from about 26 to about 30 weight % methyl acetate, and the molar ratio of water to ethanol does not exceed about 2.0.

~~72.~~ (Original) The hair care composition of claim 1 further comprising water, wherein the composition comprises from about 31 to about 40 weight % methyl acetate, and the molar ratio of water to ethanol does not exceed about 1.6.

73. (Original) The hair care composition of claim 1 further comprising a neutralizer.

74. (Original) The hair care composition of claim 1 further comprising from about 0.1 to about 5 weight % of a neutralizer, wherein the neutralizer comprises aminomethyl propanediol; aminomethyl propanol; dimethylaminomethyl propanol; triisopropyl amine; dimethyl stearamine; dimethyl hydrogenated tallow amine; triethanolamine;

tris(hydroxymethyl)aminomethane; sodium hydroxide; potassium hydroxide; ammonium hydroxide; or diethylpropylamine.

75. (Original) The hair care composition of claim 1 further comprising from about 0.1 to about 5 weight % of a neutralizer, wherein the neutralizer comprises 2-amino, 2-methyl, 1-propanol.
76. (Original) The hair care composition of claim 1 substantially free of any additional organic nonpropellant solvents.
77. (Original) The hair care composition of claim 1 selected from the group consisting of a spritz, a spray gel, a setting lotion, a glaze, and a mousse.
78. (Original) The hair care composition of claim 1, wherein the composition is in the form of a hair spray.
79. (Currently amended) The hair care composition of claim 1, comprising:
 - a. from about 1 to about 7 weight % fixative;
 - b. from about 20 to about ~~55~~80 weight % ethanol; and
 - c. from about ~~10~~5 to about 40 weight % methyl acetate.
80. (Currently amended) A consumer article comprising:
 - a. a hand-held spray container; and
 - b. a sprayable composition contained within the spray container comprising:
 - i) 20 wt.% to 55 wt.% alkanol component comprising ethanol; and
 - ii) at least ~~10~~5 weight % methyl acetate,wherein the VOC of the composition does not exceed 80%.

- 81. (Previously presented) The consumer article of claim 80, wherein the sprayable composition further comprises a perspiration deodorant, antiperspirant, or mixture thereof.
- 82. (Previously presented) The consumer article of claim 80, wherein the sprayable composition further comprises a room or surface deodorant, disinfectant, fragrance, or mixture thereof.
- 83. (Original) A method of fixing hair comprising spraying the composition of claim 1 onto hair.
- 84. (Cancelled)